



Using CAS Databases on STN[®]

*Answers to
Practice Problems
in the Student Manual*

Problems for Lessons 2-4.

1. Find references on use of high-pressure liquid chromatography in analysis of amino acids

=> FILE LCA

=> S (HIGH PRESSURE LIQ### CHROMATOG? OR HPLC)

5905 HIGH
1936 PRESSURE
2695 LIQ###
1976 CHROMATOG?
58 HIGH PRESSURE LIQ### CHROMATOG?
(HIGH(W)PRESSURE(W)LIQ###(W)CHROMATOG?)

187 HPLC
L1 233 (HIGH PRESSURE LIQ### CHROMATOG? OR HPLC)

=> S AMINO ACID#

1777 AMINO
9485 ACID#
L2 1132 AMINO ACID#
(AMINO(W)ACID#)

=> S L1 AND L2

L3 15 L1 AND L2

=> D SCAN

L3 15 ANSWERS LCA COPYRIGHT 1996 ACS
CC 9-3 (Biochemical Methods)
Section cross-reference(s): 2
TI Precolumn derivatization, ***HPLC***, and fluorescence
measurement of biogenic amines in biological materials
ST body fluid biogenic amine detn; tissue biogenic amine detn
HPLC; chromatog high performance biogenic amine; liq
chromatog biogenic amine detn; reversed phase ***HPLC***
biogenic amine
IT Animal tissue
Blood analysis
Body fluid
Urine analysis
(biogenic amines detn. in, by reversed-phase ***HPLC*** with
fluorescence detection, precolumn derivatization in)
IT Amines, analysis
(biogenic, detn. of, in body fluids and tissues by reversed-phase
HPLC with fluorescence detection, precolumn
derivatization in)
IT Chromatography, column and liquid
(high-performance, reversed-phase, fluorescence detection
combined with, biogenic amines detn. by)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> D L3 BIB

L3 ANSWER 1 OF 15 LCA COPYRIGHT 1996 ACS
AN 101:103284 LCA
TI High-performance liquid chromatography: analytical applications for
amino ***acids***
AU Hughes, Graham J.
CS Anal. Div. Int., Kontron A.-G., Zurich, CH-8048, Switz.
SO Inst. Natl. Sante Rech. Med., [Colloq.] (1983), 115(Chromatogr. Liq.
Haute Perform. Chim. Proteines), 181-97
CODEN: CINMDE
DT Journal; General Review LA English

2. Find references on toxic effects of alkaloids

=> FILE LCA

=> S ALKALOID#

L1 254 ALKALOID#

=> S L1 AND TOXIC?

1258 TOXIC?

L2 11 L1 AND TOXIC?

=> D BIB ABS

L2 ANSWER 1 OF 11 LCA COPYRIGHT 1996 ACS
AN 101:89069 LCA
TI ***Toxicity*** of Echium plantagineum (Paterson's curse). II.
Pyrrolizidine ***alkaloid*** poisoning in rats
AU Peterson, J. E.; Jago, M. V.
CS Anim. Health Res. Lab., CSIRO, Parkville, 3052, Australia
SO Aust. J. Agric. Res. (1984), 35(2), 305-15
CODEN: AJAEA9; ISSN: 0004-9409
DT Journal
LA English
AB Feed pellets contg. Echium plantagineum were incorporated into the diet of adult and weanling rats to provide either a 20 or a 40% level of Echium. These diets were fed, either continuously or intermittently, for 14-280 days. A high mortality from acute or chronic pyrrolizidine [643-20-9] ***alkaloid*** poisoning occurred in all groups given Echium. Young rats fed on 20-40% Echium for .ltoreq.28 days had a 70% mortality from acute hemorrhagic necrosis of the liver between days 22 and 35. Rats that received Echium continuously or intermittently over extended periods died with a mixt. of acute necrosis and chronic liver damage typical of pyrrolizidine ***alkaloid*** poisoning. Young rats fed on 40% Echium for only the 1st 14 days, and having consumed .ltoreq.0.7 g total ***alkaloid*** /kg live wt., developed extensive chronic liver damage, leading to deaths from the 35th day after the start of feeding. The activity of liver microsomes in the prodn. of pyrrolic metabolites from Echium ***alkaloids*** was 5-7 times greater in rats than in sheep. These results are discussed in relation to the relatively very low susceptibility of sheep to ingested Echium ***alkaloids*** .

3. Find references on genetic engineering of antibiotics

=> FILE LCA

=> S GENETIC ENGINEERING AND ANTIBIOTIC#

665 GENETIC
158 ENGINEERING
15 GENETIC ENGINEERING
(GENETIC(W)ENGINEERING)
406 ANTIBIOTIC#
L1 1 GENETIC ENGINEERING AND ANTIBIOTIC#

=> D BIB ABS

L1 ANSWER 1 OF 1 LCA COPYRIGHT 1996 ACS
AN 101:88746 LCA TI The impact of the new genetics on ***antibiotic*** production
AU Kurth, Roland; Demain, Arnold L.
CS Ferment. Microbiol. Lab., Massachusetts Inst. Technol., Cambridge,
MA, USA
SO Drugs Pharm. Sci. (1984), 22(Biotechnol. Ind. Antibiot.), 781-9
CODEN: DPHSDS; ISSN: 0360-2583
DT Journal; General Review
LA English
AB A review with 46 refs., with emphasis on recombination by protoplast
fusion and on in vitro recombinant DNA technol.

4. Find references on analysis of Transition metals using thin-layer chromatography

=> FILE LCA

=> S TRANSITION METAL# AND (THIN LAYER CHROMATOG? OR TLC)

1930 TRANSITION
4438 METAL#
605 TRANSITION METAL#
(TRANSITION(W)METAL#)
878 THIN
1591 LAYER
1976 CHROMATOG?
220 THIN LAYER CHROMATOG?
(THIN(W)LAYER(W)CHROMATOG?)
122 TLC
L1 3 TRANSITION METAL# AND (THIN LAYER CHROMATOG? OR TLC)

=> D 1-3 TI

L1 ANSWER 1 OF 3 LCA COPYRIGHT 1996 ACS
TI HPTLC separation and densitometric determination of some metallic
dithizonates at subnanogram level: applications to real samples
L1 ANSWER 2 OF 3 LCA COPYRIGHT 1996 ACS
TI Synthetic inorganic ion exchangers. XII. ***Thin*** -
layer ***chromatography*** of metals ions on thorium
antimonate: quantitative separation of mercury(II) from several
metal ions
L1 ANSWER 3 OF 3 LCA COPYRIGHT 1996 ACS
TI Selective detection and separation of tungsten(VI) along with
molybdenum(VI) and niobium(V)

Problems for Lessons 5

1. Find papers authorized by John D. O'Keefe

=> FILE LCA

=> E OKEEFE J/AU

E1	2	OKAZAWA YOZO/AU
E2	3	OKE O L/AU
E3	0→	OKEEFE J/AU
E4	1	OKETANI SHIGUEO/AU
E5	1	OKEY ALLAN B/AU
E6	2	OKEYA SEICHI/AU
E7	1	OKHLOBYSTIN O YU/AU
E8	1	OKHLOBYSTINA L V/AU
E9	3	OKHOTIN A S/AU
E10	1	OKHOTIN M V/AU
E11	1	OKHOTIN V V/AU
E12	1	OKHOTNIKOV B P/AU

=> E O KEEFE J/AU

E1	1	O KEEFE D A/AU
E2	1	O KEEFE D F/AU
E3	0→	O KEEFE J/AU
E4	1	O KEEFE J D/AU
E5	1	O KEEFE JEROME FRANCIS/AU
E6	1	O KEEFE JOHN D/AU
E7	1	O KEEFFE DAVID J/AU
E8	1	O KEEFFE M/AU
E9	1	O KELLEY JOSEPH C/AU
E10	1	O LEARY J/AU
E11	1	O LEARY J P/AU
E12	2	O LEARY MARION H/AU

=> S E4,E6

	1	"O KEEFE J D"/AU
	1	"O KEEFE JOHN D"/AU
L1	2	("O KEEFE J D"/AU OR "O KEEFE JOHN D"/AU)

=> D 1-2 CBIB

L1 ANSWER 1 OF 2 LCA COPYRIGHT 1996 ACS
81:70858 Optical response of high-power laser windows. Ultrashort pulse regime. ***O'Keefe, J. D.*** ; Johnson, R. L. (TRW Syst. Group, Redondo Beach, Calif., USA). Appl. Opt., 13(5), 1141-6 (English) 1974. CODEN: APOPAI.

L1 ANSWER 2 OF 2 LCA COPYRIGHT 1996 ACS
81:66809 Shock compression of a recrystallized anorthositic rock from Apollo 15. Ahrens, Thomas J.; ***O'Keefe, John D.*** ; Gibbons, Rex V. (Seismol. Lab., California Inst. Technol., Pasadena, Calif., USA). Proc. Lunar Sci. Conf., 4th, Meeting Date 1973, Volume 3, 2575-90. Pergamon: New York, N. Y. (English) 1973. CODEN: 28MFAR.

2. What are some publications by Robert C.A. Frederickson?

=> FILE LCA

=> E FREDERICKSON R/AU

E1 1 FREDERICKS ALAN D/AU
E2 2 FREDERICKS W J/AU
E3 0—> FREDERICKSON R/AU
E4 1 FREDERICKSON R C A/AU
E5 1 FREDERICKSON ROBERT CURTIS ARTHUR/AU
E6 1 FREDERICQ EUGENE/AU
E7 2 FREDERKING T H K/AU
E8 1 FREDETTE PAUL E/AU
E9 1 FREDHOLM B B/AU
E10 1 FREDHOLM BERTIL B/AU
E11 1 FREDIN L/AU
E12 1 FREDKIN D R/AU

=> S FREDERICKSON R?/AU

L1 2 FREDERICKSON R?/AU

=> D 1-2

L1 ANSWER 1 OF 2 LCA COPYRIGHT 1996 ACS
AN 91:91959 LCA
TI Tetrapeptides IN Smithwick, Edward Lee, Jr.; ***Frederickson, Robert Curtis Arthur*** ; Shuman, Robert Theodore
PA Lilly, Eli, and Co., USA SO Belg., 40 pp.
CODEN: BEXXAL
PI BE 870819 790328
PRAI US 77-838516 771003
DT Patent
LA French
L1 ANSWER 2 OF 2 LCA COPYRIGHT 1996 ACS
AN 91:88417 LCA
TI Diurnal differences in opioid peptide levels correlated with nociceptive sensitivity
AU Wesche, D. L.; ***Frederickson, R. C. A.***
CS Sch. Med., Indiana Univ., Bloomington, IN, USA
SO Life Sci. (1979), 24(20), 1861-7
CODEN: LIFSAK; ISSN: 0024-3205
DT Journal
LA English

Problems for Lessons 6

1. Find reviews on opiate receptors

=> FILE LCA

=> S OPIATE RECEPT? AND REVIEW/DT

65 OPIATE
832 RECEPT?
30 OPIATE RECEPT?
(OPIATE(W)RECEPT?)
6548 REVIEW/DT

L1 3 OPIATE RECEPT? AND REVIEW/DT

=> D CBIB AB 1-3

L1 ANSWER 1 OF 3 LCA COPYRIGHT 1996 ACS

101:83334 The primary stereoelectronic events controlling the
opiate ***receptor*** response to agonists and
antagonists. Belleau, Bernard; Gulini, Ugo; Gour-Salin, Barbara;
Camicioli, Richard; Lemaire, Simon; Jolicoeur, Francois (Dep. Chem.,
McGill Univ., Montreal, PQ, H3A 2K6, Can.). Highlights Recept.
Chem., Proc. Camerino Symp. Recent Adv. Recept. Chem., 2nd, Meeting
Date 1983, 135-48. Editor(s): Melchiorre, Carlo; Giannella, Mario.
Elsevier: Amsterdam, Neth. (English) 1984. CODEN: 52APAM.

AB A review with 21 refs. on the title subject. Structure-activity
relations are discussed.

L1 ANSWER 2 OF 3 LCA COPYRIGHT 1996 ACS

91:83641 Molecular actions of opiates: historical overview and new
findings on ***opiate*** ***receptor*** interactions with
enkephalins and guanyl nucleotides. Snyder, Solomon H.; Childers,
Steven R.; Creese, Ian (Sch. Med., Johns Hopkins Univ., Baltimore,
MD, 21205, USA). Adv. Biochem. Psychopharmacol., 20(Neurochem.
Mech. Opiates Endorphins), 543-52 (English) 1979. CODEN: ABPYBL.
ISSN: 0065-2229.

AB A review and discussion with 15 refs.

L1 ANSWER 3 OF 3 LCA COPYRIGHT 1996 ACS

91:82800 In vitro studies of ***opiate*** ***receptors***
Simon, Eric J. (Med. Cent., New York Univ., New York, NY, 10016,
USA). Adv. Biochem. Psychopharmacol., 20(Neurochem. Mech. Opiates
Endorphins), 31-51 (English) 1979. CODEN: ABPYBL. ISSN: 0065-2229.

AB A review with 78 refs.

2. Find patents in English on gas sensors

=> FILE LCA

=> S GAS SENSOR# AND PATENT/DT AND ENGLISH/LA

3052 GAS
161 SENSOR#
15 GAS SENSOR#
(GAS(W)SENSOR#)
9232 PATENT/DT
37678 ENGLISH/LA
L1 5 GAS SENSOR# AND PATENT/DT AND ENGLISH/LA

=> D TI PA PI 1-5

L1 ANSWER 1 OF 5 LCA COPYRIGHT 1996 ACS
TI Gas detecting sensor
PA Nippon Soken, Inc., Japan
PI US 4450428 A 840522

L1 ANSWER 2 OF 5 LCA COPYRIGHT 1996 ACS
TI Apparatus for analysis of combustible substances
PA BASF Wyandotte Corp. , USA
PI CA 1162242 A1 840214

L1 ANSWER 3 OF 5 LCA COPYRIGHT 1996 ACS
TI Carbon monoxide gas detecting device and circuit for driving it
PA Toshiba Corp., Japan
PI EP 102067 A2 840307

L1 ANSWER 4 OF 5 LCA COPYRIGHT 1996 ACS
TI Semiconductor ***gas*** ***sensor***
PA USA
PI US 4453151 A 840605

L1 ANSWER 5 OF 5 LCA COPYRIGHT 1996 ACS
TI ***Gas*** ***sensor***
PA Mast Development Co.
PI US 3450620 690617

Problems for Lesson 7

1. Are there toxic effects of Sevin to the liver?

=> FILE LREG

=> E SEVIN/CN

E1	1	SEVILEN 11306-075/CN
E2	1	SEVIMOL/CN
E3	1 →	SEVIN/CN
E4	1	SEVIN 4/CN
E5	1	SEVIN 50WP/CN
E6	1	SEVINON/CN
E7	1	SEVRON BLUE 2G/CN
E8	1	SEVRON ORANGE G/CN
E9	1	SEWIN/CN
E10	1	SEX/CN
E11	1	SEX (EXPLOSIVE)/CN
E12	1	SEXADIEN/CN

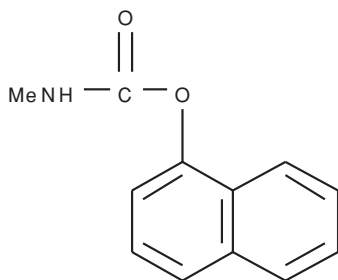
=> S E3

L1	1	SEVIN/CN
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=> D

L1	ANSWER 1 OF 1	COPYRIGHT 1996 ACS
RN	63-25-2	LREGISTRY
CN	1-Naphthalenol, methylcarbamate (9CI)	(CA INDEX NAME) OTHER CA INDEX NAMES:
CN	Carbamic acid, methyl-, 1-naphthyl ester (6CI, 7CI, 8CI)	OTHER NAMES:
CN	.alpha.-Naphthalenyl methylcarbamate	
CN	.alpha.-Naphthyl methylcarbamate	
CN	1-Naphthol N-methylcarbamate	
CN	1-Naphthyl methylcarbamate	
CN	1-Naphthyl N-methylcarbamate	
CN	Arilat	
CN	Arilate	
CN	Arylam	
CN	Atoxon	
CN	Caprolin	
CN	Carbaril	
CN	Carbaryl	
CN	Carbatox	
CN	Carbatox 60	
CN	Carbatox 75	
CN	Carbavur	
CN	Carbomate	
CN	Carvin	
CN	Compound 7744	
CN	Denapon	
CN	Dicarbam	
CN	Dyna-carbyl	
CN	ENT 23969	
CN	Experimental Insecticide 7744	
CN	Germain's	
CN	Hexavin	
CN	Karbatox	
CN	Karbatox 75	
CN	Karbatox zawiesinowy	
CN	Karbosep	
CN	Menaphtam	
CN	Monsur	
CN	Mugan	
CN	Murvin	

CN NAC
 CN NAC (insecticide)
 CN NMC 50
 CN Oltitox
 CN Panam
 CN Pomex
 CN Prosevor 85
 CN Ravyon
 CN Seffein
 CN Sevimol
 CN ***Sevin***
 CN Sevin 4
 CN Sevin 50WP
 CN Sewin
 CN Thinsec ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
 FS 3D CONCORD
 DR 11130-47-5, 52001-89-5, 11095-11-7, 51274-03-4
 MF C12 H11 N O2
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CAPREVIEWS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CBNB, CHEMSAFE, CIN, CJACS, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, MSDS-PEST, MSDS-SUM, PIRA, PNI, PROMT, RTECS*, SPECINFO, TOXLINE, TOXLIT, USAN, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)



=> FILE LCA

=> S L1 AND (LIVER OR HEPAT?)

50 L1
1517 LIVER
507 HEPAT?
L2 5 L1 AND (LIVER OR HEPAT?)

=> D TI AB HITRN 1-5

L2 ANSWER 1 OF 5 LCA COPYRIGHT 1996 ACS
TI The effects of acute carbaryl exposure on clotting factor activity in the rat
AB Rats were placed on a drinking soln. contg. 10 ppm carbaryl (I) [***63-25-2***] or water for 30 days. Plasma was analyzed for the prothrombin time, partial thromboplastin time, fibrinogen, and clotting factor activity for coagulation factors II, V, VII, VIII, IX, X, XII, and platelet count. Only 2 hematol. parameters measured were statistically different from the controls; these parameters were the platelet count and factor VII [9001-25-6] activity, both of which were reduced. Histol. examn. of the ***hepatic*** tissue illustrated that a no. of pathol. changes were occurring.
IT ***63-25-2***
(blood coagulation factors response to)

L2 ANSWER 2 OF 5 LCA COPYRIGHT 1996 ACS
TI Studies on the effects of carbamate pesticides on induction properties of rat ***hepatic*** enzymes
AB Rats treated with maneb [12427-38-2] or carbaryl (I) [***63-25-2***] showed no changes in ***liver*** wt. and in ***hepatic*** concn. of cytochrome P 450 [9035-51-2], ethoxycoumarin deethylase [42613-26-3], and bilirubin UDP glucuronyl transferase [9030-08-4]. However, when phenobarbital was given concomitantly with I, the phenobarbital-induced changes in cytochrome P 450 and in the fatty acid content of phospholipids was less marked than in animals given only phenobarbital. The superoxide dismutase [9054-89-1] activity of the ***liver*** was not affected by any of the treatments. The Mn content of the ***liver*** homogenate (but not that of the ***liver*** microsomes) was increased by I treatment.
IT ***63-25-2***
(***liver*** enzymes response to)

L2 ANSWER 3 OF 5 LCA COPYRIGHT 1996 ACS
TI Metabolism of carbaryl by kidney, ***liver***, and lung from human postembryonic fetal autopsy tissue
AB The most significant anionic metabolite of carbaryl (I) [***63-25-2***] in the fetal ***liver*** was 1-naphthyl glucuronide [17238-47-0] and possibly an hydroxylated deriv. Kidney was a very active tissue and it formed significant amts. of naphthyl glucuronide and 1-naphthol sulfate [3197-94-2]. The latter was the most significant metabolite in the lung. The anionic metabolites from fetal ***liver*** amounted to only 20% of those found in adult ***liver***. The metabolic activities of kidney and lung were close to the corresponding human adult tissues based upon the nature of anionic metabolites and the amt. of unmetabolized I in the medium after 18 h of incubation. The in vitro technique can semiquant. demonstrate the metabolic activities of specific organs from the human fetus.
IT ***63-25-2D***, metabolites
(in kidney and ***liver*** and lung)
IT ***63-25-2***
(metab. of, in kidney and ***liver*** and lung)

L2 ANSWER 4 OF 5 LCA COPYRIGHT 1996 ACS
 TI NAD+ permeability of rat ***liver*** mitochondria during the effect of DDT and Sevin
 AB DDT (I) [50-29-3] or Sevin (II) [***63-25-2***] decreased the level of NAD [53-84-9] in ***liver*** mitochondria when administered orally to rats at 70 or 144 mg/kg/day, resp., for 3 days or at 3.5 or 7.2 mg/kg/day, resp., for 5 months. ***Liver*** mitochondria from rats poisoned with I lost less NAD+ into the buffer soln. and also absorbed less NAD+ from the soln. than did mitochondria from the controls. However, the absorption of NAD+ from the soln. by mitochondria from rats poisoned with II was greater than that by the control mitochondria.
 IT ***63-25-2***
 (NAD transport by ***liver*** mitochondria response to)

L2 ANSWER 5 OF 5 LCA COPYRIGHT 1996 ACS
 TI Effects on drug metabolism of carbaryl and 1-naphthol in the mouse
 AB Carbaryl (I) [***63-25-2***] (5 g/kg of feed for 14 days) but not its breakdown product, 1-naphthol [90-15-3] (3.6 g/kg of feed), depressed the body and ***liver*** wts. of mice, and increased in vitro ***liver*** metab. of aniline [62-53-3] and benzphetamine [156-08-1] and ***liver*** microsomal concns. of cytochrome P-450 [9035-51-2] and cytochrome b5 [9035-39-6]. I, which also decreased the in vivo rate of Zectran [315-18-4] hydrolysis by 8-12% 0-4 hr after administration, increased the disappearance of pentobarbital Na (II) [57-33-0] (70 mg/kg, i.p.) from blood thus reducing II-induced sleeping time to 71% of control values. The LD50 for acutely administered I (9 g/100 ml by gastric tube) was increased 2-fold by 14-day- I feeding. I is thus a weak inducer of ***hepatic*** microsomal drug-metabolizing enzymes.
 IT ***63-25-2***
 (pharmaceutical metab. stimulation by, in ***liver*** microsomes)

2. Find patents on ibuprofen

=> FILE LREG

=> E IBUPROFEN/CN

E1	1	IBUFENAC/CN
E2	1	IBUNAC/CN
E3	1	—> IBUPROFEN/CN
E4	1	IBUPROFEN ACID CHLORIDE/CN
E5	1	IBUPROFEN ALUMINUM/CN
E6	1	IBUPROFEN GUAIACOL ESTER/CN
E7	1	IBUPROFEN SODIUM/CN
E8	1	IBUPROFEN SODIUM SALT/CN
E9	1	IBZ/CN
E10	1	IC 2000/CN
E11	1	ICAJIDINE/CN
E12	1	ICAJINE/CN

=> S E3

L1 1 IBUPROFEN/CN

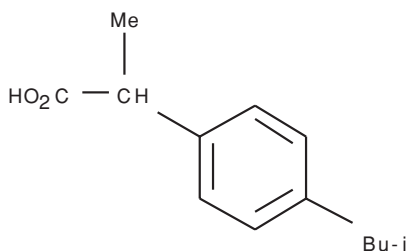
=> D

L1 ANSWER 1 OF 1 COPYRIGHT 1996 ACS
RN 15687-27-1 LREGISTRY
CN Benzeneacetic acid, .alpha.-methyl-4-(2-methylpropyl)- (9Cl) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Hydratropic acid, p-isobutyl- (7Cl, 8Cl) OTHER NAMES:
CN .alpha.-(4-Isobutylphenyl)propionic acid
CN .alpha.-Methyl-4-(2-methylpropyl)benzeneacetic acid
CN 2-(4'-Isobutylphenyl)propionic acid
CN 2-(4-Isobutylphenyl)propanoic acid
CN 2-(p-Isobutylphenyl)propionic acid
CN 4-Isobutylhydratropic acid
CN Advil
CN Brufen
CN Ibufen
CN ***Ibuprofen***
CN IP 82
CN Motrin
CN Nuprin
CN Nurofen
CN p-Isobutyl-2-phenylpropionic acid
CN p-Isobutylhydratropic acid
CN Paduden
CN Proflex
CN RD 13621
CN Rufin
CN Unipron
FS 3D CONCORD
MF C13 H18 O2
CI COM

LC STN Files: AIDSLINE, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS, CAPREVIEWS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CBNB, CIN, CJACS, CSCHEM, DDFU, DIPPR*, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, MSDS-SUM, PIRA, PHAR, PNI, PROMT, RTECS*, SPECINFO, TOXLINE, TOXLIT, USAN, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)



=> FILE LCA

=> S L1 AND PATENT/DT

10 L1
 9232 PATENT/DT
 L2 3 L1 AND PATENT/DT

=> D 1-3 TI PA PI HITRN

L2 ANSWER 1 OF 3 LCA COPYRIGHT 1996 ACS
 TI Analgesic combinations
 PA Sandoz A.-G., Switz.
 PI WO 8402273 A1 840621
 IT ***15687-27-1***
 (analgesic pharmaceuticals contg. hydroxyzine)

L2 ANSWER 2 OF 3 LCA COPYRIGHT 1996 ACS
 TI Use of flurbiprofen and ibuprofen for herpes virus infection treatment
 PA Upjohn Co. , USA
 PI DE 3340347 A1 840607
 IT ***15687-27-1***
 (in herpes virus infection treatment)

L2 ANSWER 3 OF 3 LCA COPYRIGHT 1996 ACS
 TI Sticking prevention of granules coated with water-soluble or-swellable films
 PA Taiyo Yakuin Kogyo K. K., Japan
 PI JP 59049840 A2 840322 Showa
 IT ***15687-27-1***
 (granules, with cellulose and Pr cellulose)

3. Find information on methods of preparation of a Vitamin D analog known as Inhoffen Lythgoe Diol

=> FILE LREG

=> E INHOFFEN LYTHGOE/CN

E1	1	INHIBITOR OPS/CN
E2	1	INHIBOSTAMIN/CN
E3	0 —>	INHOFFEN LYTHGOE/CN
E4	1	INHOFFEN LYTHGOE DIOL/CN
E5	1	INK BLUE/CN
E6	1	INK BLUE A/CN
E7	1	INK BLUE BA/CN
E8	1	INK BLUE BJT/CN
E9	1	INK BLUE BJTBN 80/CN
E10	1	INK BLUE BJTBNA 80/CN
E11	1	INK BLUE BJTN/CN
E12	1	INK BLUE CR/CN

=> S E4

L1 1 "INHOFFEN LYTHGOE DIOL"/CN

=> D

L1 ANSWER 1 OF 1 COPYRIGHT 1996 ACS

RN 64190-52-9 LREGISTRY

CN 1H-Indene-1-ethanol, octahydro-4-hydroxy-.beta.,7a-dimethyl-, [1R-[1.alpha.(S*),3a.beta.,4.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN ***Inhoffen Lythgoe diol***

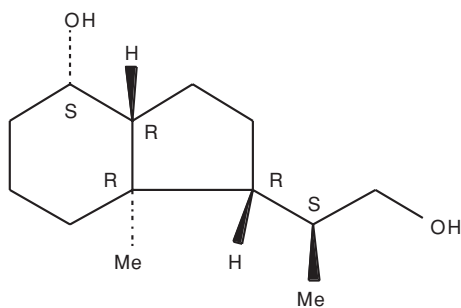
FS STEREOSEARCH

MF C13 H24 O2

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CJACS, USPATFULL

(*File contains numerically searchable property data)

DES 1:1R2:1A(S*),3AB,4A,7AA



=> FILE LCA

=> S L1/P

L2 1 L1/P

=> D ALL

L2 ANSWER 1 OF 1 LCA COPYRIGHT 1996 ACS
AN 109:170715 LCA
TI Diastereoselection in an aqueous Diels-Alder reaction: a formal total synthesis of the Inhoffen-Lythgoe diol
AU Brandes, Ellen; Grieco, Paul A.; Garner, Philip
CS Dep. Chem., Indiana Univ., Bloomington, IN, 47405, USA
SO J. Chem. Soc., Chem. Commun. (1988), (7), 500-2
CODEN: JCCCAT; ISSN: 0022-4936
DT Journal
LA English
CC 32-8 (Steroids)
GI Diagram(s) available in offline prints and/or printed CA Issue.
GI For diagram(s), see printed CA Issue.
AB The formal total synthesis of the title diol (I) was accomplished by the synthesis of hydrindan II from Me (R)-3-hydroxy-2-methylpropionate.
ST Inhoffen Sythgoe diol total synthesis; vitamin D 3 precursor synthesis
IT ***64190-52-9P***
(formal total synthesis of)
IT 71485-91-1P 97826-89-6P 105859-44-7P 105859-45-8P
116916-89-3P 116916-90-6P 116916-91-7P 116916-92-8P
116916-93-9P 116916-94-0P 116916-95-1P 116916-96-2P
116916-97-3P 116916-98-4P 116916-99-5P 116917-00-1P
116917-01-2P 116917-02-3P 116917-03-4P 116917-04-5P
116917-05-6P 116917-06-7P 116917-07-8P 116917-08-9P
116917-09-0P 116917-10-3P 116917-11-4P 116930-57-5P
116930-58-6P 116930-59-7P 116950-28-8P 116950-29-9P
116950-30-2P
(prepn. of, during formal total synthesis of Inhoffen-Lythgoe diol)
IT 72657-23-9
(use of, as starting material for formal total synthesis of Inhoffen-Lythgoe diol)



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